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March 1964

PHOTOGRAPHIC INTERPRETATION REPORT

TTMTR TERMINAL RANGE FACILITIES, KAMCHATKA, USSR

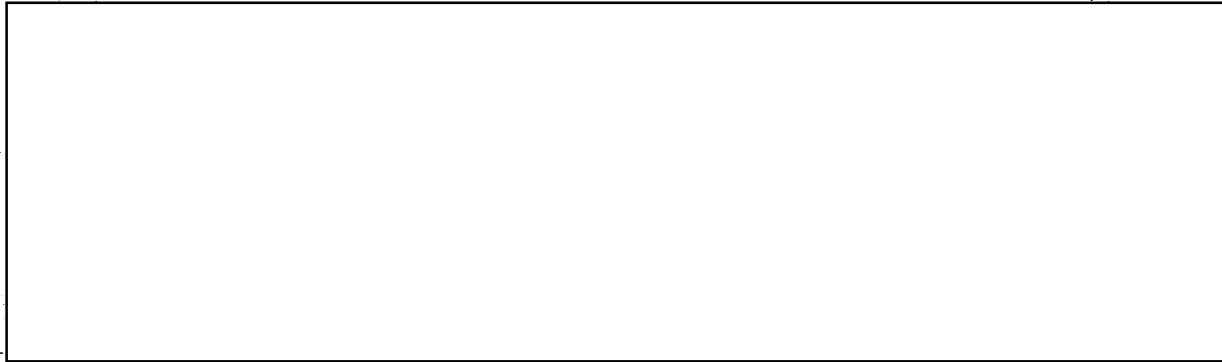
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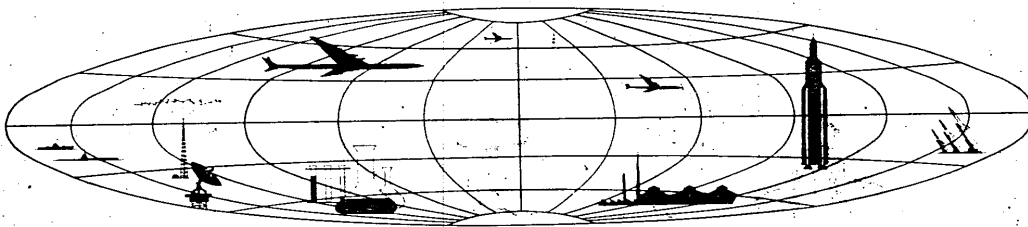
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TTMTR TERMINAL RANGE FACILITIES, KAMCHATKA, USSR

INTRODUCTION

This report describes the Tyuratam Missile Test Range (TTMTR) terminal range facilities as they appear on [redacted] photography of [redacted]. The quality of the photography was excellent and cloud free, a rare event for this portion of the Kamchatka Peninsula, and as a result it was possible to update all known facilities in the Uka-Klyuchi area (Figure 1). 1/ 2/ However, the photography has its limitations, especially in regard to antenna identification. Heavy snow cover, for example, completely conceals two interferometers and a communications antenna area which have been previously identified on [redacted] photography. Also, the scale of the photography (approximately 1:380,000) in most cases precludes identification by type even when antennas are recognizable.

It should be noted, also, that the coordinates and components of several of the sites described in this study do not completely agree with information given in previous reports.

Even so, except for the sites along the coast, all the coordinates given in this report are no more than approximate since neither the maps nor the photography contain sufficient planimetric detail for precise plotting.

DESCRIPTION OF INDIVIDUAL FACILITIES

Communications Center Near Klyuchi

Location: Approximately one nm SW of the center of Klyuchi

Coordinates: 56-19N 160-49E

Map: USATC 200/0132-24A, 1st ed, Oct 58, scale 1:200,000 (SECRET)

Description (Figure 2): This is the same facility reported on the referenced map as "Klyuchi Test Range Instrumentation Site, [redacted]". To facilitate description, the center has been divided into three areas: headquarters and support, rhombic antenna, and airfield.

Headquarters and Support Area. This area now contains 100 or more buildings, as against approximately 20 in previous reports. 1/ Most of the buildings are barracks type, but a few are multistory administration buildings and approximately 20 are individual housing units. Only one antenna can be seen, a tall vertical radiator, but others may be present.

Rhombic Antenna Area. Previously reported to have one single and three double rhombic antennas, 1/ this area is covered by snow and the present status of these antennas cannot be determined. However, a communications control building, a cooling tower, two fuel-oil tanks, and approximately eight maintenance buildings can be seen in the area.

Airfield Area. Although this area was previously described as having no more than a heliport, 1/ it currently appears to contain a fully operational airfield with approximately 25 buildings. At the time of the [redacted]

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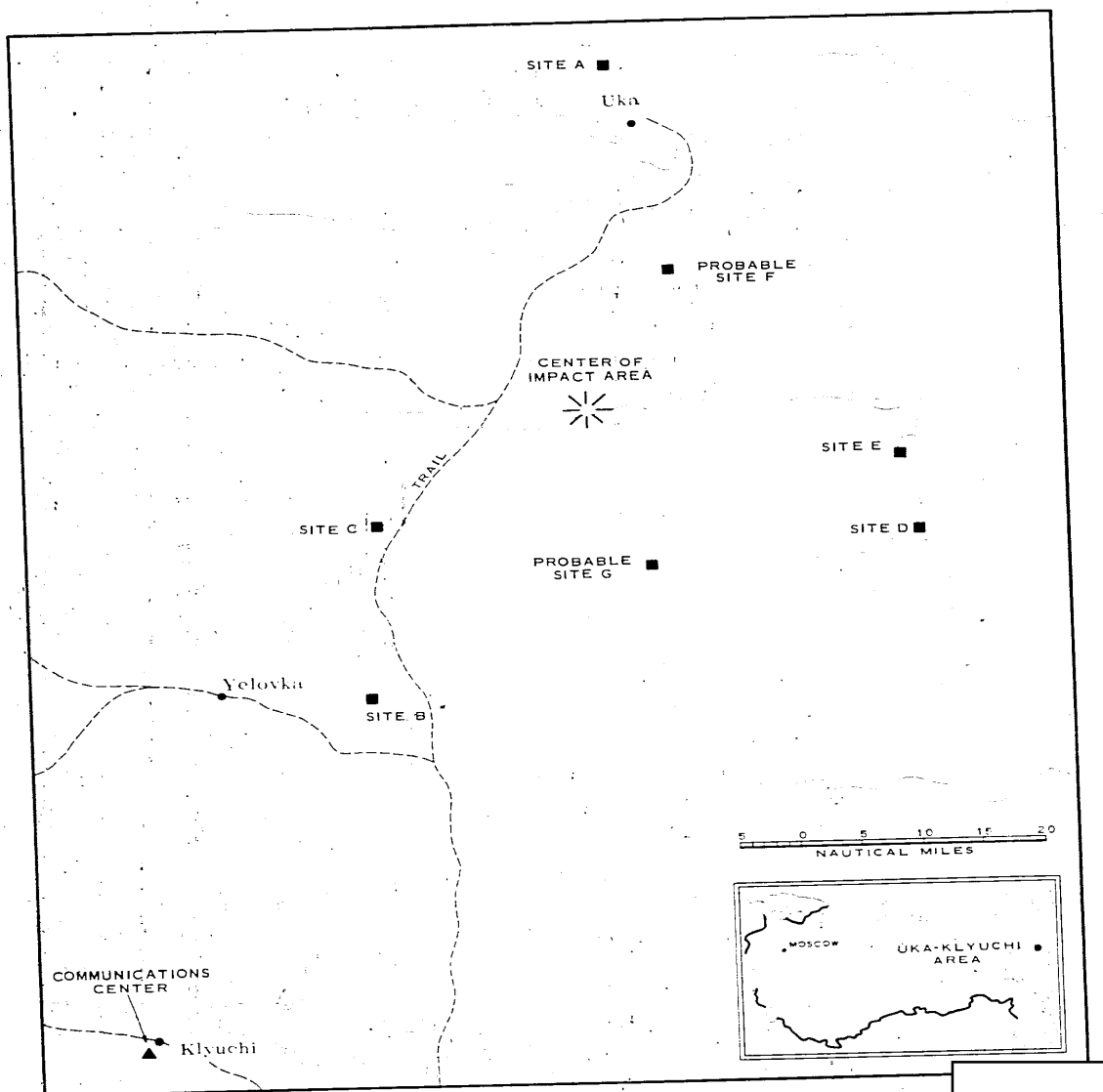


FIGURE 1. LOCATION OF TERMINAL RANGE FACILITIES.

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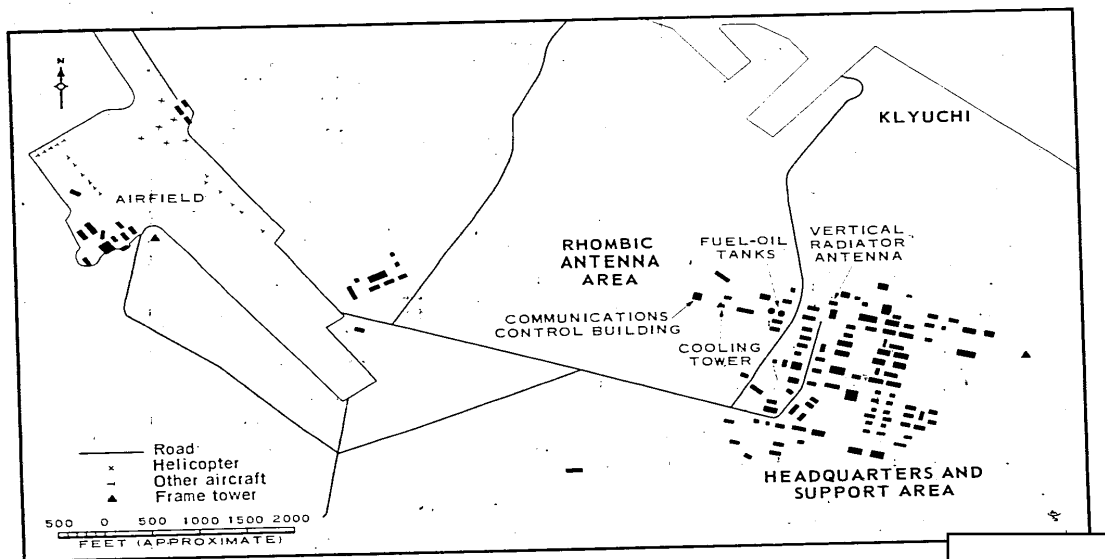


FIGURE 2. COMMUNICATIONS CENTER NEAR KLYUCHI.

photography, 23 aircraft, including 6 helicopters, were visible. The runway is snow covered and its exact dimensions cannot be determined, but elements of an instrument landing system are discernible.

Instrumentation Site A

25X1D

Location: 6 nm NNW of Uka; collocated with Uka Airfield
Coordinates: 57-56N 162-01E
Map: USATC 200/0132-14HL, 2ded, Sep 63, scale 1:200,000 (SECRET)

25X1D

Description (Figure 3): To facilitate description, this site has been divided into three sections, central, north, and south.

Central Section. This section includes a housing/support area, an instrumentation area,

and Uka Airfield. The section contains well over 100 buildings/structures, most of them in the housing/support area. Of this number, approximately 15 are barracks-type buildings, 30 are duplex-type individual housing units, and 20 are large administration or instrumentation control buildings; the rest are frame tower-type structures, utility sheds, or small unidentified structures.

The actual number or type of antennas present in the section cannot be determined because of limitations of the photography. However, one large environmental dome, 110 feet in diameter, and approximately three 10- to 20-foot probable domes can be observed within the fenced compound at the instrumentation area. Three more probable domes, 10 to 20 feet in diameter, and approximately two pole masts, about 60 feet high, are situated just north of the fence. One tall self-supporting vertical radiator

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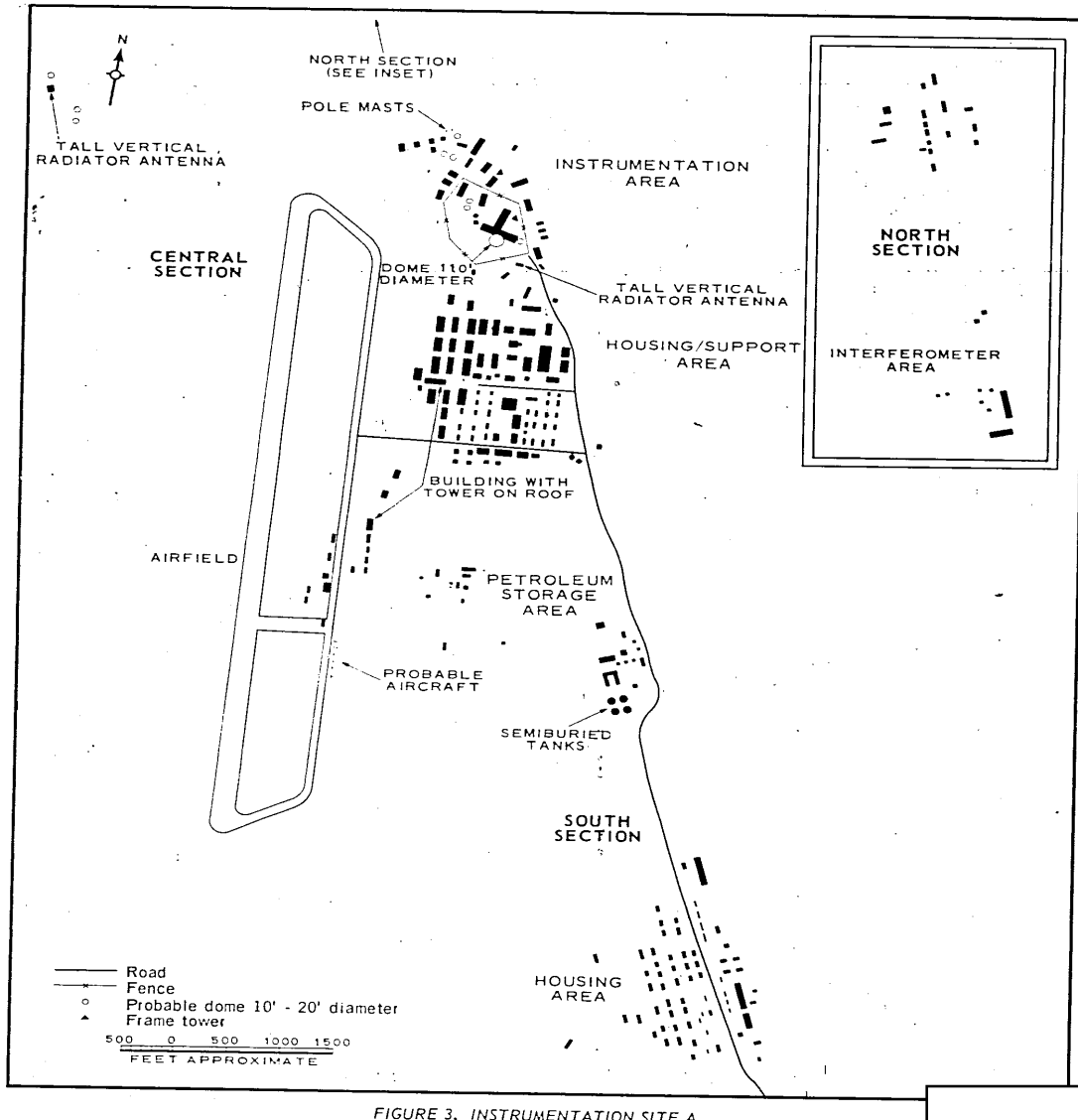


FIGURE 3. INSTRUMENTATION SITE A.

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antenna is situated just south of the fenced compound, and another antenna of the same type is approximately 4,000 feet to the northwest. The latter antenna is estimated to be 270 feet high and probably has a small dome near its base and two other domes close by. Throughout the section are scattered an undetermined number of slender frame tower-type structures about 45 feet high, and several buildings have towers or raised platforms on their roofs.

Uka Airfield is snow covered but several small objects along the operations area taxiway indicate that aircraft are probably present. No significant change is noted in any of its facilities.

North Section. This section contains an interferometer area and a group of buildings. The interferometer was reported previously 1/ but is not visible on the 1/ photography because of snow cover; two large buildings and eight small unidentified objects can be discerned in the area. To the north is a group of approximately 15 buildings, previously unreported but possibly associated with the interferometer. As far as can be determined, these buildings have been constructed since

South Section. This entire section is previously unreported and apparently constructed since 1/. It contains a housing area of approximately 70 buildings, the three largest being a vehicle storage shed, an administration building, and a probable mess/recreation building. Approximately 2,000 feet to the north is a petroleum storage area that contains four large semiburied tanks, eight variously sized buildings, and several small unidentified structures/objects.

Instrumentation Site B

Location: 64 nm SSW of Uka and 13 nm east of Yelovka

Coordinates: 56-52N 161-19E*

Map: USATC 200/0132-19A, 1st ed, May 59, scale 1:200,000 (SECRET)

Description (Figure 4): This is the same facility reported on the referenced map as "Yelovka Tracking Station." The site consists of 6 small barracks-type buildings, approximately 24 variously sized utility buildings and storage sheds, a landing strip that is nearly concealed by snow, and a small probable meteorological station. An interferometer reported from previous photography 1/ is entirely con-

*Although somewhat at variance with previous determinations, the coordinates given for this site were plotted from vertical coverage and are believed to be more accurate.

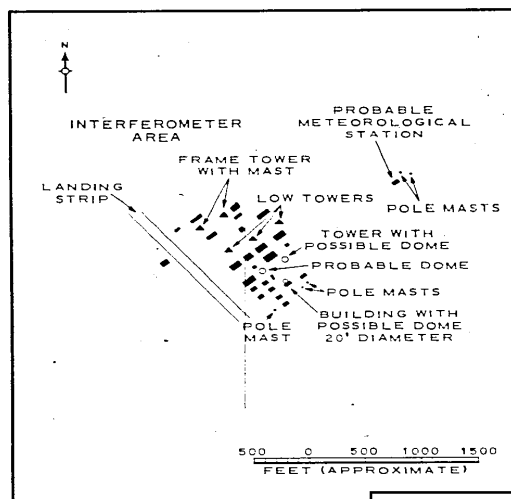


FIGURE 4. INSTRUMENTATION SITE B.

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25X1D cealed by snow cover on the [redacted] photography. Some possible antennas are visible, such as pole masts and masts on frame towers, but their images are too small to be identified by type. One probable and two possible domes, approximately 20 feet in diameter, can be observed. The probable meteorological station, which appears to be associated with the site, has two pole masts.

Instrumentation Site C

25X1D

Location: 52 nm SSW of Uka and 22 nm NE of Yelovka
Coordinates: 57-10N 161-24E*
Map: USATC 200/0132-19A, 1sted, May 59,

*Although somewhat at variance with previous determinations, the coordinates given for this site were plotted from vertical coverage and are believed to be more accurate.

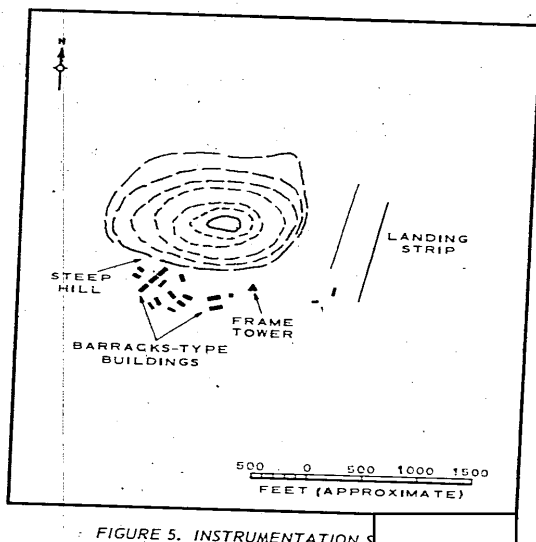


FIGURE 5. INSTRUMENTATION SITE C

scale 1:200,000 (SECRET)

Description (Figure 5): The site consists of 5 small barracks-type buildings, approximately 15 small utility buildings or storage sheds, a low frame tower, and a short landing strip.

Instrumentation Site D

Location: On an escarpment overlooking Zaliv Ozerney coastline, 46 nm SSE of Uka
Coordinates: 57-08-30N 162-46-30E
Map: USATC 200/0132-19A, 1sted, May 59, scale 1:200,000 (SECRET)

Description (Figure 6): The site consists of two groups of buildings approximately 3,000

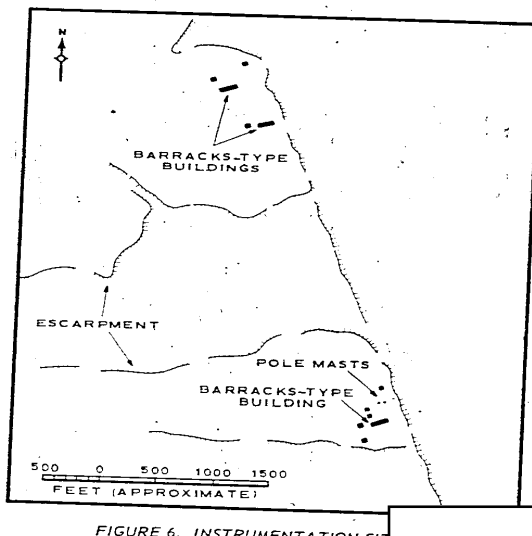


FIGURE 6. INSTRUMENTATION SITE D

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feet apart. Altogether, there are 3 small barracks-type buildings, 8 shed-type buildings, and 2 pole masts which are possible antennas.

mental domes 10 to 20 feet in diameter. Two other pole masts are visible and are probably antennas.

Instrumentation Site E

Probable Instrumentation Site F

25X1D

Location: On an escarpment overlooking Zafiv Ozerney coastline, 40 nm SSE of Uka
Coordinates: 57-16-00N 162-45-40E
Map USATC 200/0132-19A, 1st ed, May 59, scale 1:200,000 (SECRET)

Location: 16 nm south of Uka
Coordinates: 57-35N 162-09E
Map: USATC 200/0132-19A, 1st ed, May 59, scale 1:200,000 (SECRET)

25X1D

Description (Figure 7): The site consists of 5 small barracks-type buildings, 4 larger shed-type buildings, approximately 19 other smaller sheds or frame tower structures, and a short landing strip. Of the 19 smaller structures, at least one has a pole mast-type probable antenna and two have possible environ-

Description (Figure 8): This site, previously observed on photography of

It includes 5 small barracks-type buildings, a

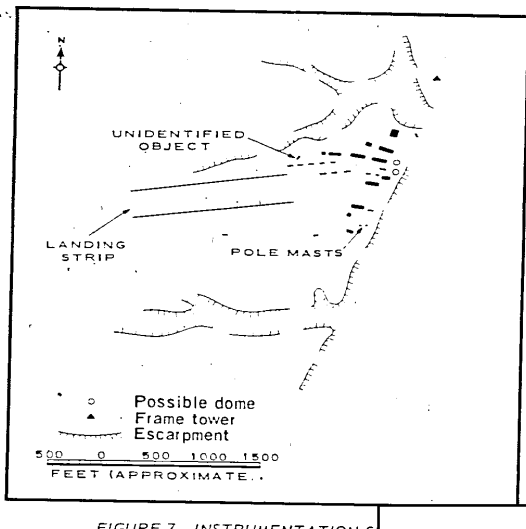


FIGURE 7. INSTRUMENTATION SITE E.

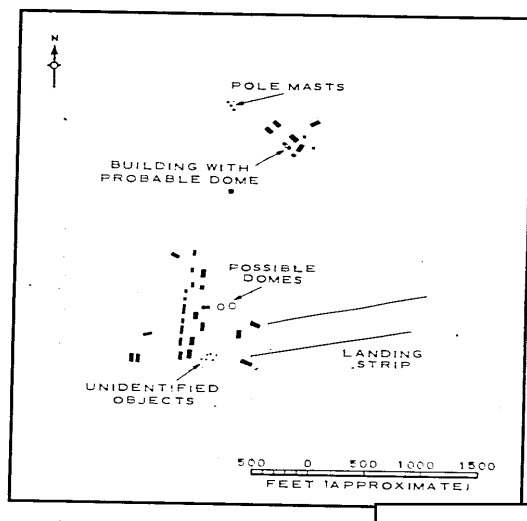


FIGURE 8. PROBABLE INSTRUMENTATION SITE F.

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landing strip, and several possible antennas. The possible antennas include three discernible pole masts, two possible environmental domes approximately 20 feet in diameter, and a building with a probable dome.

frame towers. One of the larger buildings has a spirelike structure at one end, another has a tall narrow towerlike structure on its roof, and at least 3 pole masts are observed among the buildings, but it cannot be determined whether any of these are antennas.

Probable Instrumentation Site G

25X1D

Location: In mountainous terrain approximately 45 nm south of Uka.

Coordinates (approximate): 57-06N 162-05E

Map: USATC 200/0132-19A, 1st ed, May 59, scale 1:200,000 (SECRET)

25X1D

25X1D

Description (Figure 9): This site was initially observed in [redacted] but was not identifiable as an electronics facility because of obliquity and small scale. It contains approximately 45 buildings or structures, the larger of which include approximately 7 barracks-type buildings, one administration-type building, 5 maintenance or storage buildings, and a probable meteorological station. The other, smaller structures appear to be sheds or

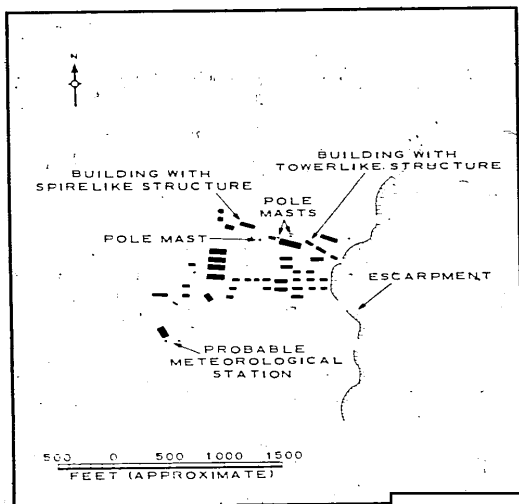


FIGURE 9. PROBABLE INSTRUMENTATION SITE G.

REFERENCES

DOCUMENTS

25X1C

25X1C

1. NPIC. R-1440 '63, *Tyura Tam Missile Test Center, USSR*, Sep 63 (SECRET)

2. NPIC. R-124 '62, *Terminal Range Facilities of the Tyura Tam Missile Test Range, USSR*, Aug 62 (TOP SECRET)

25X1C

25X1D

25X1B

REQUIREMENT

NPIC. PC-41 '64

NPIC PROJECT

N-50 '64

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